

RANGE 400 SERIES

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UNITED STATES MARINE CORPS

Tactical Training and Exercise Control Group
Marine Corps Air Ground Combat Center, Box 788104
Twentynine Palms, California 92278-8104

RANGE 400 SERIES OVERVIEW

1. **COURSE TITLE.** RANGE 400 SERIES
2. **TRAINING OBJECTIVES.** The purpose of the Range 400 Series is to train rifle companies and platoons in the techniques and procedures for attacking fortified areas, and to train company and platoon leaders in the live-fire employment of organic and attachment weapons systems. The Range 400 Series prepares rifle companies and platoons to perform dismounted attacks during the Mobile Assault Course (MAC), Helicopterborne Course (HAC), and the Final Exercise (FINEX). Specific training objectives and standards for each exercise are included in the individual Range 400 Series lesson plans.
3. **COURSE OVERVIEW**
 - a. **Classroom Instruction.** The Range 400 Techniques and Procedures Class is presented to the exercise force upon arrival at the Combat Center. This class provides instruction on the techniques and procedures essential to success on the Range 400 Series.
 - b. **Range 410A.** Range 410A is the first live-fire Tactical Training and Exercise Control Group (TTECG) monitored event of the Combined Arms Exercise (CAX). Each rifle platoon in the company conducts a live-fire attack against a platoon-size, fortified position, and receives a debrief on its performance.
 - c. **Range 410.** Range 410 follows Range 410A. It is a non-TTECG monitored event which affords the company the opportunity to refine Standard Operating Procedures (SOPs), rehearse battle drills, and incorporate lessons-learned from Range 410A.
 - d. **Range 400.** Range 400 is the culmination of the Range 400 Series. The company conducts a live-fire, daylight attack against a company-size, fortified position. The company is reinforced with all weapons systems organic to the rifle battalion, except TOWs. A comprehensive debrief immediately follows the exercise.
4. **ADMINISTRATIVE INSTRUCTIONS**
 - a. The focus of the Range 400 Series is on the company. It is not necessary for the Battalion Combat Operations Center or

- Fire Support Coordination Center to be present during the various exercises.
- b. Detailed administrative instructions for each live-fire exercise in the Range 400 Series are provided in their respective lesson plans in this booklet.
 - c. In addition to the administrative instructions specific to each range, the following battalion-level considerations and recommendations apply.
 - (1) Ammunition for the Range 400 Series live-fire exercises should be staged near the ranges no later than the day prior to the first running of Range 410A. Sun shades located at the entrance to each range are ideal staging points.
 - (2) Units may bivouac near the ranges the night prior. Bivouac sites must be located South of the East-West road connecting the 400 Series ranges.
 - (3) Ensure attachments are effective not later than 1200 the day prior to each company's execution of Range 400. Late arrival of attachments will degrade the company's preparation, performance, and training.
 - (4) The battalion gunner should be present on Range 400 to assist the company with registration of crew-served weapons.
 - (5) Ensure the attached scout sniper teams have their TTECG-assigned controllers on Range 400.
 - (6) The Battalion Aid Station (BAS) should be located at the 400 Series Ranges. The BAS should be prepared to treat and evacuate heat casualties and casualties due to falls and concertina wire entanglement. Additionally, gunshot wounds and fragmentation wounds have occurred on these ranges.
 - (7) A small arms repair team and Explosive Ordnance Disposal (EOD) detachment from the Combat Service Support Detachment should be positioned at the ranges. Range 410A includes the use of live hand grenades during trench clearing. Exercise force EOD is required to be present at Range 410A to clear dud hand grenades between each platoon's execution of the range.
 - (8) Allocate additional radio assets to the company on Range 400 to support the road guard requirement.
 - (9) It is recommended that the Range Safety Officer (RSO) be assigned for all runnings of Range 400.
 - d. Range 400 Series Execution Checklists are provided at the end of this booklet as an aid to conducting the ranges.

4. **SAFETY**

- a. The exercise force is responsible for the safe conduct of all live-fire exercises during the Range 400 Series.
- b. Range 410A and Range 400 are TTECG-monitored events. They will be conducted in accordance with safety regulations found in the CAX Safety Handbook.
- c. Range 410 is not a TTECG-monitored event. This exercise will be conducted in accordance with Combat Center Order P3500.4D, Standard Operating Procedures for Range/Training Areas and Airspace. The CAX Safety Handbook does not apply to this exercise.
- d. The Range 400 Series is a demanding, live-fire training cycle. Range 400, in particular, has proven itself to be a dangerous training evolution. As of the writing of this package, the staff of TTECG alone has experienced one death and three wounded on Range 400. With this in mind, the following recommendations are offered to promote safe and effective execution on the ranges.

- (1) It is critical that units come to the Combat Center prepared to conduct live-fire exercises in a mid- to high-intensity combat environment. The Range 400 Series begins on the second training day of the CAX. Marines must already be trained in basics individual and crew-served weapons employment, fire control, small unit fire-and-movement/fire-and-maneuver, and small unit battle drills. These basic individual and small unit skills are discussed in detail in such publications as FMFM 1-3B Field Firing Techniques, FMFMRP 6-15 Machineguns and Machinegun Gunnery, FMFM 6-19 Infantry Mortars and the Battle Drill Guide.
- (2) The company commander should be present when his company conducts both Range 410A and Range 410. This will enable him to make an accurate assessment of his unit's proficiency at each stage in the Range 400 Series, take remedial action as necessary, and determine his unit's ability to safely execute the next event in the series. The battalion commander should also observe the performance of his companies on these ranges to make the same assessment.
- (3) Company and battalion commanders have the flexibility to reduce the complexity of the problem presented on each range if they believe unit proficiency is not sufficient to safely execute the full problem. This decision must be based on an honest assessment of the unit at its current level of proficiency. Decisions to reduce the complexity of a particular range must be coordinated with the TTECG.
- (4) Unit leaders should conduct a leader's reconnaissance of each range prior to live-fire execution.

(5) Unit leaders should conduct a fratricide risk assessment of their concept of operations prior to the live-fire exercise. During this risk assessment, detailed attention should be paid to the safety requirements in the CAX Safety Handout.

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RANGE 410A

Ref: (a)FM 7-8, Infantry Rifle Platoon and Squad
(b)FM 7-10, Infantry Rifle Company
(c)FMFM 1-3B, Field Firing Techniques
(d)MCWP 3-11.1, Marine Infantry Small Unit Employment
(e)MCWP 3-11.2, Marine Rifle Squad
(f)MCWP 3-15.1, Machineguns and Machinegun Gunnery
(g)Battle Drill Guide

1. **LESSON TITLE.** Range 410A

2. **TRAINING OBJECTIVE.** RIFLE PLATOON ATTACK OF A FORTIFIED AREA

a. **Task.** Conduct a reinforced platoon, live-fire attack on a fortified area.

b. **Conditions.** The platoon is tasked with seizing a platoon-size, fortified position. The platoon is reinforced with a machinegun squad and an assault team. The platoon must operate within established safety regulations found in the CAX Safety Handbook and guidance contained in the enclosed operations order.

c. **Purpose.** The purpose of the Range 410A exercise is to apply lessons-learned during the Range 400 Techniques and Procedures Class, and to demonstrate the platoon's ability to plan and execute a live-fire, dismounted attack against a fortified area.

d. **Training Standards.** Battle Drill Guide.

- (1)Battle Drill 1:Prepare for Combat Operations
- (2)Battle Drill 2:Conduct Movement Techniques
- (3)Battle Drill 11:Conduct Reconnaissance of an Objective
- (4)Battle Drill 16:Acquire Targets and Distribute Fire
- (5)Battle Drill 17:Conduct Fire and Movement
- (6)Battle Drill 18:Offensive Actions at the Objective

- (7) Battle Drill 21: Knock Out a Bunker
- (8) Battle Drill 22: Clear a Trench Line
- (9) Battle Drill 23: Conduct Initial Breach of a Mined Wire Obstacle
- (10) Battle Drill 24: Breach a Mined Wire Obstacle
- (11) Battle Drill 27: Consolidate and Reorganize

3. **ADMINISTRATIVE INSTRUCTIONS**

a. Range 410A is a reinforced platoon, live-fire attack against a fortified position. Each rifle platoon will have the following attachments for the exercise.

- (1) One machinegun squad.

- (2) One assault team. The assault team will employ SMAW practice rounds only.

b. The platoon will be required to conduct a mechanical breach of a wire obstacle. The platoon is, therefore, should assemble a breaching kit in order to safely execute this task.

c. Range 410A includes the use of live hand grenades during trench clearing. Platoons must rehearse grenade procedures using practice grenades prior to conducting the range, under TTECG supervision. The CAX Safety Handout provides details on hand grenade procedures. Exercise force EOD is required to be present at Range 410A to clear dud hand grenades between each platoon's execution of the range.

d. The Range 410A operations order indicates that the exercise platoon is mounted in AAVs. During the exercise, however, no AAVs will be used. The exercise begins with the platoon having dismounted at a point south of the enemy position.

e. Platoons will be given a notional 5 minutes of suppression from 81mm mortars in support of their attack, starting at the beginning of the exercise.

f. On the morning of the exercise and prior to the exercise beginning, a Tactical Training and Exercise Control Group (TTECG) Representative will verify depression stops for medium machineguns that will be firing overhead. This will be done by having those weapons fire with the barrel resting on the depression stop.

g. It is imperative that the exercise begins at the scheduled time. This is particularly important during hot weather, when failure to start on time can result in numerous heat casualties. The following actions must be taken by the company before TTECG representatives arrive at the range:

(1) All medium machineguns that will provide overhead fires in their firing position, tripod legs sand-bagged, and depression stops in place.

(2) Company-level safety brief conducted.

(3) Ammunition issued to the company.

(4) The range in a "hot" status and communications established with range control (BEARMAT).

(5) Positive accountability established for all personnel, ensuring no Marines are down range when TTECG Representatives arrive.

h. Immediately prior to each platoon's running of Range 410A, the platoon commander will brief the Execution and Command and Signals paragraphs of his operations order to TTECG representatives. He will also brief his platoon's Standard Operating Procedure (SOP) for trench clearing. A terrain model will be used during this brief.

i. The Range 400 Series Execution Checklists at the back of this booklet should be used as an aid for conducting Range 410A.

5. **SAFETY**

a. The exercise force is responsible for the safe conduct of Range 410A. This exercise will be conducted in accordance with safety regulations found in the CAX Safety Handout.

b. A Range Safety Officer (RSO) will be appointed by the exercise force. He can have no tactical duties as part of the exercise. The RSO will maintain positive communications with range control (BEARMAT) on frequency 49.85 at all times. The RSO will also ensure that the range flag is posted, and that there is a dedicated safety vehicle and corpsman on the range.

c. Road guards will be placed at the entrances to the range. Road guards must have positive communications with the RSO.

d.Red pyrotechnics stop all fire and movement.

Copy no. ___ of ___ copies
Co X, X Tk Bn
MOJAVIA
999999U Xxx 00
Range 410A

Frag Order 2-XX (Range 410A)

Ref: (a)Map:V795S MARINE CORPS AIR GROUND COMBAT CENTER,
TWENTYNINE PALMS EAST, Sheet 29 PALMS EAST MIM, 4-NIMA,
1:50,000

Time Zone: U

Task Organization: No Change.

1. SITUATION

a. General. (Omitted)

b. Enemy Forces

(1) Enemy Situation

(a) See Operations Overlay.

(b) One mechanized infantry company defends CLEGHORN PASS in the vicinity of NU974007.

(c) One antitank platoon, equipped with AT-5s mounted on BRDMs, occupies prepared positions vicinity of NT977970.

(d) One dismounted infantry platoon occupies prepared positions vicinity of RANGE 410A (NT961972).

(e) Enemy units have had over 36 hours to prepare defensive positions. They are expected to have well-constructed trenchlines with numerous wire obstacles.

(f) Enemy units are expected to defend from their current positions in order to retain control of the CLEGHORN PASS area.

c. Friendly Forces

(1) At 999999U Xxx 00, X Bn (-) (Rein), X Mar secures MAGTF Obj 1 (NU970020) in order to deny the enemy use of CLEGHORN PASS.

(2)Co X (-) (Rein) (Tm Mech) is the battalion main attack. Follows in trace of Tm Tank, bypasses enemy units at Bn Obj A (NT970970), and secures MAGTF Obj 1, (NU970020).

(3)Co X (Rein) (Tm Truck) is the battalion reserve. Follows in trace of Tm Mech and is prepared to assume the mission of Tm Mech.

(4)Artillery. Btry X, X Bn, XX Mar: Direct support of X Bn, X Mar. Priority of fires to Tm Mech. Occupies initial firing positions in the vicinity of NT890900. Provides fires in support of the battalion's attack on MAGTF Obj 1 (NU970020). After MAGTF Obj 1 (NU970020) is secured, displaces to firing positions in the vicinity of PT015975 and provides fires in support of consolidation on MAGTF Obj 1 (NU970020).

(5)Mortars. 2nd Sec, Mortar Plat, Wpns Co, X Bn, X Mar: Direct Support.

(6)Air. The battalion has been allotted 4 sorties FWCAS and 2 sorties RWCAS. All CAS will be used to support Tm Mech's attack on MAGTF Obj 1 (NU970020). Priority of CAS to Tm Mech.

(7)Naval Surface Fire Support. None.

(8)Combat Service Support

(a)Battalion combat train will follow in trace of maneuver elements. After MAGTF Obj 1 (NU970020) is secured, will position itself vicinity NT986999.

(b)Battalion field trains will remain in the CSSA at the port of TWENTYNINE PALMS. Displace on order when MAGTF Obj 1 (NU970020) is secured.

d.Attachments and Detachments. No change.

e.Assumptions. None.

2.MISSION

At H-Hour, Co X (Rein), X Tk Bn seizes Bn Obj A (NT970970) in order to allow the battalion main attack to bypass to the east.

3.EXECUTION

a.Commander's Intent/Concept of Operations

(1)Commander's Intent. The purpose of this operation is to enable the battalion's main attack (Tm Mech) to bypass the enemy units at Bn Obj A (NT970970). This will be accomplished by destroying the enemy antitank platoon and infantry platoon in the objective area. The antitank platoon will be destroyed by fire; the infantry platoon will be destroyed by seizing its defensive positions. End state is both enemy platoons destroyed, and the battalion main attack bypassing to the east without receiving fire from Bn Obj A (NT970970).

(2)Concept of Operations

(a)Maneuver

(1)See Operations Overlay.

(2)At H-Hour, the company crosses LD in a company wedge.

(3)At PL ORANGE, the mortar section breaks from the formation and occupies firing positions vicinity of NT940950.

(4)At PL GRAPE, the lead tank platoon breaks from the formation, moves to CP 1 and attacks the enemy antitank platoon by fire. The mechanized infantry platoon breaks from the formation and seizes Co Obj 1 (NT961972) - the enemy infantry platoon position. The right tank platoon breaks from the formation, positions itself at CP 2, orients on CP 3, and guards the company's east (right) flank.

(5)After the objective is seized and the battalion main attack has bypassed, the company establishes an assembly area vicinity Co Obj 1 (NT961972) and prepares for further combat operations.

(6)The attack by fire of the enemy antitank platoon is the main effort.

(b)Fires. Supporting arms will be used to create a smoke screen as the company closes with the enemy antitank platoon, suppress the enemy antitank platoon to allow the lead tank platoon to close to effective engagement range, and suppress the enemy infantry platoon to allow our mechanized infantry platoon to close with Co Obj 1 (NT961972).

(1)Artillery Support. X Btry, X Bn, XX Mar is in direct support of the battalion, with priority of fires to Tm Mech. The battery will initially occupy firing positions vicinity NT890900. Since we are the lead element of the battalion, we can expect artillery support until Tm Mech executes its bypass of Bn Obj A (NT970970). As we cross LD, we will fire a smoke screen in front of the enemy antitank platoon. At PL GRAPE, artillery fires will be shifted onto the antitank platoon to provide suppression as our lead platoon closes to effective engagement range.

(2)Mortar Support. 2nd Sec, Mortar Plat, Wpns Co, X Bn, X Mar is in direct support of our company. As the company crosses PL ORANGE, the mortar section will occupy firing positions in the vicinity of NT940950. From here, the section will suppress Co Obj 1 (NT961972) until 5 minutes after our mechanized infantry platoon dismounts to seize the objective.

(3)Air Support. All CAS allotted the battalion will be used to support Tm Mech's attack on MAGTF Obj 1 (NU970020). We can expect no air support for our company's attack.

(4)Naval Surface Fire Support. None.

(5)Planned Fires

(a)XX1001 is a linear smoke target at NT969960 that will be used to screen our movement from the enemy antitank platoon.

(b)XX1002 is at NT977970, and will be used to suppress the enemy antitank platoon.

(c)XX1003 is at NT961972, on the enemy infantry platoon position at Co Obj 1 (NT961972).

b.Tasks

(1)1st Plat

(a)Lead unit in the company wedge.

(b)After crossing PL GRAPE, move to CP 1 and attack by fire the enemy antitank platoon vicinity NT977970 in order to destroy the enemy antitank platoon.

(2)X Plat (Rein), X Co, X Bn, X Mar (Mech Plat/Exercise Plat)

(a)Left unit in the company wedge.

(b)After crossing PL GRAPE, seize Co Obj 1 (NT961972) in order to destroy the enemy platoon defending at that location.

(3)2nd Plat

(a)Right unit in the company wedge.

(b)After crossing PL GRAPE, move to CP 2 and orient on CP 3. Guard the company's east (right) flank.

(4)2nd Sec, Mortar Plat, Wpns Co, X Bn, X Mar

(a)Follow in trace of HQ Sec in the center of the company wedge.

(b)As the company crosses PL ORANGE, occupy firing positions in the vicinity of NT940950. Suppress Co Obj 1 (NT961972) until 5 minutes after our mechanized infantry platoon dismounts to seize the objective.

(c)On order, displace to the company assembly area vicinity Co Obj 1 (NT961972).

c.Company Reserve. (Omitted)

d.Coordinating Instructions

(1)See Operations Overlay.

(2)H-Hour is 999999U Xxx 00.

(3)MOPP level 0 in effect.

(4)Current company assembly area is vicinity of NT900915.

(5)Unit positions in company wedge.

(a)1st Plat is lead unit.

(b)2nd Plat is right unit.

(c)Mech Plat is left unit.

(d)Hq Sec in center of formation, following behind 1st Plat.

(e)Mortar Sec follows behind Hq Sec.

(f)Company combat train follows behind Mortar Sec.

(6)Company assembly area following seizure of Bn Obj A (NT970970).

(a)See Company Combat SOP.

(b)Company assembly area will be established vicinity Co Obj 1 (NT961972).

(c)Mech Plat will occupy positions from 10 o'clock to 2 o'clock. 1st Plat will occupy positions from 6 o'clock to 10 o'clock. 2nd Plat will occupy positions from 2 o'clock to 6 o'clock. Hq Sec, Mortar Sec and company combat train will position in the center of the assembly area. 12 o'clock is north.

4.ADMINISTRATION AND LOGISTICS

a.See Company Combat SOP and Operations Overlay.

b.The battalion's combat train will follow in trace of maneuver elements. Following seizure of MAGTF Obj 1 (NU970020), will position itself vicinity NT986999.

c.The battalion's field trains will remain in the CSSA at the port of TWENTYNINE PALMS. Displace on order when MAGTF Obj 1 (NU970020) is secured.

d.Company combat train follows at the rear of the company formation. Following seizure of Bn Obj A (NU970970) and Co Obj 1 (NT961972), positions itself in the center of the company assembly area at Co Obj 1 (NT961972).

e.BAS located with the battalion's combat train.

f.UMCP initially located at NT890910. Will collocate with the battalion's combat train after MAGTF Obj 1 (NU970020) is secured.

5.COMMAND AND SIGNAL

a.Command Relationships. (Omitted)

b.Signal. See Company Combat SOP and current CEOI.

c. Command Posts

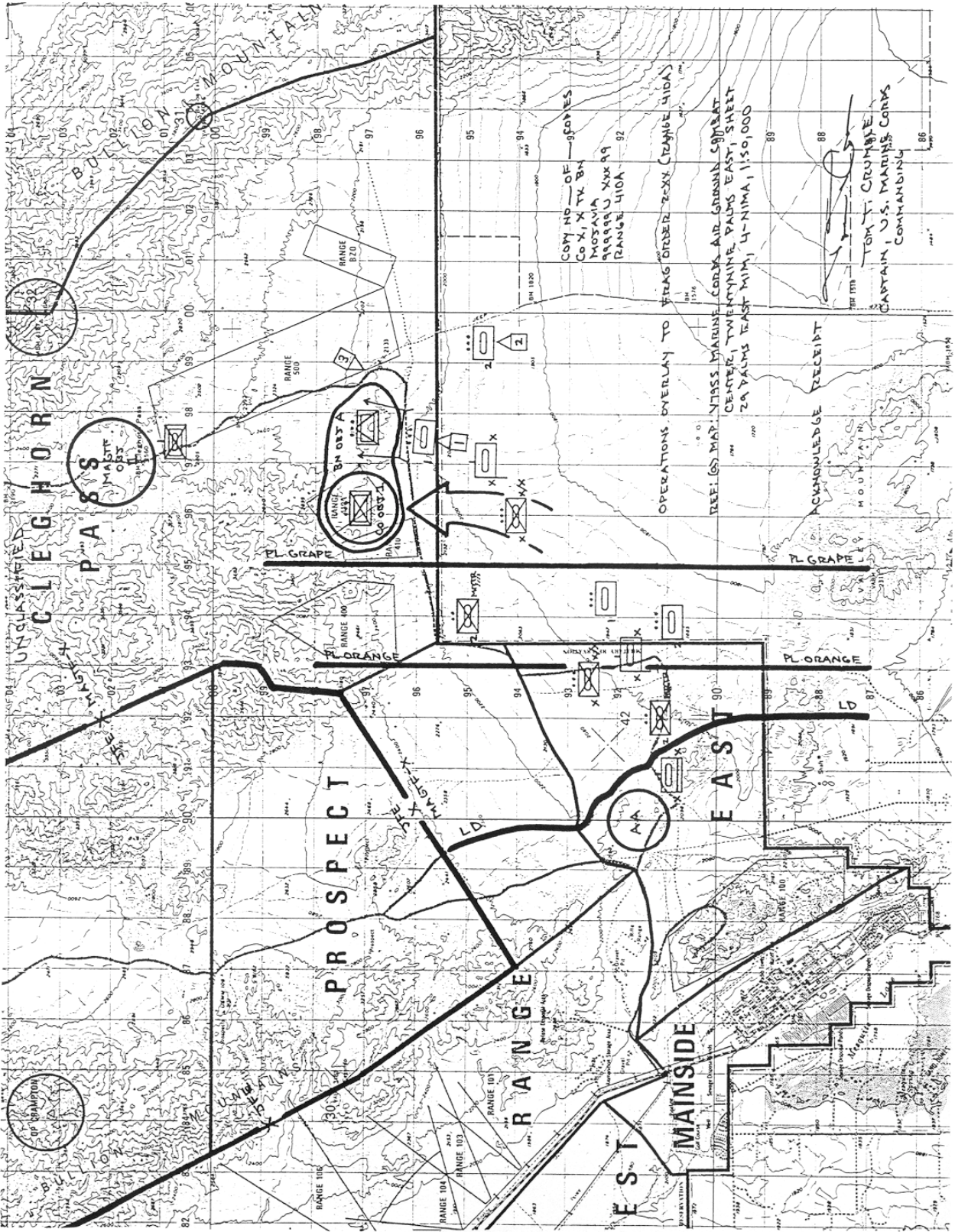
(1) Battalion alpha command element will follow in trace of our company initially, and then follow in trace of Tm Mech as it bypasses Bn Obj A (NT970970).

(2) Battalion bravo command element will collocate with the artillery battery.

(3) Company HQ Sec will position itself in the center of the company formation during movement, and position itself between 1st Plat and Mech Plat during the attack on Bn Obj A (NT970970).

ACKNOWLEDGE RECEIPT

TOM T. CRUMBLE
Captain, U.S. Marine Corps
Commanding



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RANGE 410

Ref: (a)FM 7-8, Infantry Rifle Platoon and Squad
(b)FM 7-10, Infantry Rifle Company
(c)FMFM1-3B, Field Firing Techniques
(d)MCWP 3-11.1, Marine Infantry Small Unit Employment
(e)MCWP 3-11.2, Marine Rifle Squad
(f)MCWP 3-15.1, Machineguns and Machinegun Gunnery
(g)Battle Drill Guide

1. **LESSON TITLE.** Range 410

2. **TRAINING OBJECTIVE.** BATTLE DRILLS FOR ATTACKING A FORTIFIED AREA

a. **Task.** Develop and rehearse battle drills and Standard Operating Procedures (SOPs) for attacking a fortified area.

b. **Conditions.** The company must operate within established safety regulations found in Combat Center Order P3500.4D, Standard Operating Procedures for Range/Training Areas and Airspace.

c. **Purpose.** Range 410 affords the company the opportunity to refine SOPs, rehearse battle drills, and incorporate lessons-learned from Range 410A.

d. **Training Standards.** Battle Drill Guide.

- (1) Battle Drill 1: Prepare for Combat Operations
- (2) Battle Drill 2: Conduct Movement Techniques
- (3) Battle Drill 11: Conduct Reconnaissance of an Objective
- (4) Battle Drill 16: Acquire Targets and Distribute Fire
- (5) Battle Drill 17: Conduct Fire and Movement
- (6) Battle Drill 18: Offensive Actions at the Objective
- (7) Battle Drill 21: Knock Out a Bunker
- (8) Battle Drill 22: Clear a Trench Line

(9) Battle Drill 23: Conduct Initial Breach of a Mined Wire Obstacle

(10) Battle Drill 24: Breach a Mined Wire Obstacle

(11) Battle Drill 27: Consolidate and Reorganize

3. **ADMINISTRATIVE INSTRUCTIONS**

a. Range 410 is a platoon live-fire and maneuver range. Company commanders should use the Range 410 exercise to develop and refine platoon and squad battle drills in preparation for the Range 400 exercise.

b. The Range 410 exercise is run by the company commander - there is no Tactical Training and Exercise Control Group (TTECG) supervision or evaluation.

c. Company commanders need to balance time spent on Range 410 with time required to prepare for the Range 400 exercise conducted the following day.

4. **SAFETY**

a. The exercise force is responsible for the safe conduct of Range 410.

b. Range 410 is not a TTECG-monitored event. This exercise will be conducted in accordance with Combat Center Order P3500.4E, Standard Operating Procedures for Range/Training Areas and Airspace. The CAX Safety Handbook does not apply to this exercise.

c. A Range Safety Officer (RSO) will be appointed by the exercise force. He can have no tactical duties as part of the exercise. The RSO will maintain positive communications with range control (BEARMAT) on frequency 49.85 at all times. The RSO will also ensure that the range flag is posted, and that there is a dedicated safety vehicle and corpsman on the range.

d. Road guards will be placed at the entrances to the range. Road guards must have positive communications with the RSO

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RANGE 400

Ref: (a)FM 7-8, Infantry Rifle Platoon and Squad
(b)FM 7-10, Infantry Rifle Company
(c)FM 90-13-1, Combined Arms Breaching Operations
(d)FMFM 1-3B, Field Firing Techniques
(d)MCWP 3-11.1, Marine Infantry Small Unit Employment
(e)MCWP 3-11.2, Marine Rifle Squad
(f)MCWP 3-15.1, Machineguns and Machinegun Gunnery
(h)Battle Drill Guide

1. **LESSON TITLE.** Range 400
2. **TRAINING OBJECTIVE.** RIFLE COMPANY ATTACK OF A FORTIFIED AREA
 - a. **Task.** Conduct a reinforced company, live-fire attack on a fortified area.
 - b. **Conditions.** The company is tasked with conducting an attack on a company-size fortified position. The company is reinforced with an 81mm mortar section, heavy machinegun squad, Dragon squad, scout sniper team and engineer squad. The company will operate within established safety regulations found in the CAX Safety Handbook and guidance contained in the enclosed operations order.
 - c. **Purpose.** The purpose of the Range 400 exercise is to apply lessons-learned during the Range 400 Techniques and Procedures Class, Range 400 Analysis of the Situation, and Range 410A, and to demonstrate the company's ability to plan and execute a live-fire, dismounted attack against a fortified area.
 - d. **Training Standards**
 - (1) Develop a plan of attack for a fortified area.
 - (2) Execute an attack on a fortified area.
 - (3) Conduct an explosive breach of a minefield.
 - (4) Employ attached 81mm mortars, heavy machineguns, and Dragons during an attack on a fortified area.

- (5) Employ attached engineers during an attack on a fortified area.
- (6) Employ an attached scout sniper team during an attack on a fortified area.
- (7) Evacuate casualties.
- (8) Battle Drill Guide standards.
 - (a) Battle Drill 1: Prepare for Combat Operations
 - (b) Battle Drill 2: Conduct Movement Techniques
 - (c) Battle Drill 11: Conduct Reconnaissance of an Objective
 - (d) Battle Drill 16: Acquire Targets and Distribute Fire
 - (e) Battle Drill 17: Conduct Fire and Movement
 - (f) Battle Drill 18: Perform Offensive Actions at the Objective
 - (g) Battle Drill 21: Knock Out a Bunker
 - (h) Battle Drill 22: Clear a Trench Line
 - (i) Battle Drill 23: Conduct Initial Breach of a Mined Wire Obstacle
 - (j) Battle Drill 24: Breach a Mined Wire Obstacle
 - (k) Battle Drill 27: Consolidate and Reorganize

3. **ADMINISTRATIVE INSTRUCTIONS**

a. Range 400 is a reinforced company, live-fire attack against a fortified position. Each rifle company will have the following attachments for the exercise.

- (1) One section of 81mm mortars.
- (2) One squad of Dragons.
- (3) One squad of heavy machineguns. This will consist of any combination of two M2s/Mk19s.
- (4) One scout sniper team.

(5) One engineer squad.

b. The company will be required to conduct an explosive breach of a minefield. Additionally, the company will be required to breach a tactical wire obstacle, which can be breached with explosives or mechanically.

c. Platoons will be required to conduct assault breaches of protective wire obstacles. These obstacles must be breached mechanically, and platoons should be equipped with breach kits.

d. Throughout the exercise, the company will be assessed casualties to exercise its casualty evacuation plan.

(1) Both "walking wounded" and casualties requiring transport by litter teams will be assessed.

(2) At a minimum, casualties must be evacuated to the company's designated casualty collection point. At the Exercise Force's discretion, casualties can be evacuated from the company's casualty collection point to the BAS, if the BAS is located near the 400-Series ranges.

(3) All casualty evacuation will be by ground.

(4) Litter teams supporting the company can come from either the company's organic personnel or other companies in the battalion.

e. The Range 400 operations order indicates that the company is truck-mounted. The actual exercise, however, begins in a company assault position vicinity grid coordinates NT932965, at the southwest corner of the range, with the company dismounted.

f. Both the company's 60mm mortar section and the attached 81mm mortar section will be positioned in established mortar pits located at grid coordinates NH942969.

g. On the morning of the exercise and prior to the exercise beginning, a Tactical Training and Exercise Control Group (TTECG) Representative will observe check rounds for all mortars supporting the attack. Two rounds of each type ammunition (HE/WP) will be fired on each target recorded for each mortar section. This will be followed by firing a section left/right for each target/ammunition combination to confirm the section's sheaf. The purpose for those check rounds is to ensure that the registered mortar fires are safe

for closing maneuver elements, not to make minor refinements in adjustment.

h. On the morning of the exercise and prior to the exercise beginning, a TTECG Representative will verify depression stops for medium machineguns that will be firing overhead. This will be done by having those weapons fire with the barrel resting on the depression stop. Additionally, he will observe fires on recorded targets for heavy machineguns supporting the exercise.

i. On the morning of the exercise and prior to the exercise beginning, the TTECG Engineer Representative will inspect demolitions to be used to breach the enemy minefield, as well as any deception breach of the minefield. Demolitions will not be primed until cleared by the TTECG Engineer Representative.

j. It is imperative that the exercise begins at the scheduled time. This is particularly important during hot weather, when failure to start on time can result in numerous heat casualties. The following actions must be taken by the company before TTECG representatives arrive at the range:

(1) All mortar targets fired and recorded. This should be accomplished the night before the exercise.

(2) All heavy machineguns in their firing position, registered on assigned targets, with data recorded from T&E mechanisms for each target. Machineguns that will provide overhead fires must have positive depression stops. All machinegun teams should be located with their machineguns when TTECG Representatives arrive.

(3) All medium machineguns that will provide overhead fires in their firing position, tripod legs sand-bagged, and depression stops emplaced. All machinegun teams should be located with their machineguns when TTECG Representatives arrive to verify depression stops. After the depression stops have been verified, the machinegunners, their weapons and equipment, and all ammunition will move to the company assault position to begin the exercise; tripods, T&E mechanisms, flex-mounts and depression stops will remain in place.

(4) Demolitions emplaced for the breach of the enemy minefield, as well as any deception breach of the minefield. Demolitions will not be primed until cleared by the TTECG Engineer Representative. The engineer squad should be positioned at the breach site when TTECG arrives.

(5) Company-level safety brief conducted.

(6) Scout sniper team in position with its controller. The TTECG-assigned controller must be with the scout sniper team for it to participate in the exercise.

(7) Ammunition issued to the company.

(8) The company staged in the attack position. This does not include the scout sniper team, mortar sections, machinegunners, and engineer squad, who must be in position to meet TTECG Representatives when they arrive.

(9) The range in a "hot" status and communications established with range control (BEARMAT).

(10) Positive accountability established for all personnel, ensuring no Marines are down range when TTECG Representatives arrive.

(11) The company commander and his Fire Support Team (FIST) located at the range's "Barber Pole" in order to link-up with TTECG Representatives and conduct mortar check rounds.

k. Immediately prior to running Range 400, the company commander will brief the Execution and Command and Signals paragraphs of his operations order to TTECG representatives. He will also brief the composition of the heavy machinegun squad, the number and type of machinegun and mortar ammunition that will be used, and the number and type of rockets and Dragon missiles that will be used. A terrain model will be used during this brief.

l. Following the brief, TTECG will establish H-Hour for the attack.

m. Upon completion of the exercise, a comprehensive debrief will be conducted in the vicinity of the enemy "Security Position". The leaders of all squad and larger units are required to attend. Attendance by other Marines in the company is at the discretion of the company commander.

n. The Range 400 Series Execution Checklists at the back of this booklet should be used as an aid for conducting Range 400.

5. **SAFETY**

- a. The exercise force is responsible for the safe conduct of Range 400. This exercise will be conducted in accordance with safety regulations found in the CAX Safety Handout.
- b. A Range Safety Officer (RSO) will be appointed by the exercise force. He can have no tactical duties as part of the exercise. The RSO will maintain positive communications with range control (BEARMAT) on frequency 49.85 at all times. The RSO will also ensure that the range flag is posted, and that there is a dedicated safety vehicle and corpsman on the range.
- c. Road guards will be placed at the entrances to the range, specifically at grid coordinates NT934955 and NT947958. Road guards must have positive communications with the RSO.
- d. Red pyrotechnics stop all fire and movement.

Copy no. ___ of ___ copies
X Bn, X Mar
MOJAVIA
999999U Xxx 00
Range 400

Frag Order 2-XX (Range 400)

Ref: (a)Map:V795S MARINE CORPS AIR GROUND COMBAT CENTER,
TWENTYNINE PALMS EAST, Sheet 29 PALMS EAST MIM, 4-NIMA,
1:50,000

Time Zone: U

Task Organization: No change.

1. SITUATION

a. General. (Omitted)

b. Enemy Forces

(1) Characteristics of Weather and Area of Operations

(a) See latest weather forecast.

(b) The battalion's area of operations is known as the CLEGHORN PASS area. This area is dominated by the Bullion Mountains, which extend south to the ocean. The mountains in our area of operations are impassable to vehicular movement, except through CLEGHORN PASS - a narrow north-south pass connecting the CLEGHORN PASS area with the LAVA area to its north. A secondary pass branches to the southwest off CLEGHORN PASS. This secondary pass is called the RANGE 400 PASS, and is also extremely narrow.

(2) Enemy Situation

(a) See Operations Overlay.

(b) Two enemy mechanized battalions attacked yesterday (Range 400 exercise day - 2) into the east (right) flank of the CTF defenses around the port of TWENTYNINE PALMS. One battalion advanced through the LAVA-DELTA pass, and then attacked south through the DELTA CORRIDOR. This battalion was stopped by JFE forces defending in the DELTA CORRIDOR, and is currently engaged with the JFE units. The second mechanized battalion advanced south from LAVA into the CLEGHORN PASS area. It has

established defenses that control CLEGHORN PASS and RANGE 400 PASS.

(c) The mechanized battalion located in the CLEGHORN PASS area is a battalion (-) (rein), consisting of two mechanized infantry companies and an attached T-72 tank platoon and engineer platoon. The battalion retains its 120mm mortar platoon and reconnaissance platoon. The battalion is suspected to have undergone deliberate reorganization prior to this latest attack due to losses sustained in previous fighting. The battalion is organized into three maneuver elements: one mechanized infantry company (-) with two mechanized infantry platoons, one full mechanized infantry company, and a battalion reserve consisting of the tank platoon, battalion antitank platoon, and a mechanized infantry platoon. The mechanized infantry platoon in the reserve was probably detached from the mechanized infantry company (-). The battalion's organic units are thought to be at 70% strength in personnel and equipment. The battalion is preparing deliberate defenses, and has already had 24 hours to prepare positions. By the time of our attack, it will have had 40 hours. The battalion's disposition is as follows:

(1) Mechanized infantry company defending CLEGHORN PASS in the vicinity of NU975005. A minefield is being laid 800 meters to the front of the company's defenses.

(2) Mechanized infantry company (-) defending the RANGE 400 PASS in the vicinity of NT940970. We have received an aerial photograph of this company's defenses, which is attached to this order. A minefield is being laid 800 meters to the front of the company's defenses. This company is supported by a section of 82mm mortars.

(3) The battalion reserve is in an assembly area in the vicinity of NU970030.

(4) The 120mm mortar platoon is located at NU973022.

(5) The 82mm mortar section is located at NT938980.

(6) Locations of the enemy's reconnaissance platoon and battalion headquarters are unknown.

(3) Enemy Capabilities. The enemy battalion in the CLEGHORN PASS area is capable of defending with two

companies and a reserve team; withdrawing the entire battalion toward BAGDAD; delaying a friendly advance through CLEGHORN PASS and LAVA using three company-size maneuver elements; or conducting a battalion (-) attack toward TWENTYNINE PALMS.

(4)Indications. The enemy battalion in the CLEGHORN PASS area is expected to continue defending from its current positions, with a company (-) defending the RANGE 400 PASS and a company defending CLEGHORN PASS. Control of these passes will allow any reinforcing units arriving in the CTF area of operations to advance through CLEGHORN PASS and RANGE 400 PASS and attack TWENTYNINE PALMS from the east.

c.Friendly Forces

(1)MAGTF-XX attacks in zone and secures CLEGHORN PASS.

(2)JFE forces defend in sector on our west (left). One JFE mechanized battalion defends in the DELTA CORRIDOR.

(3)Artillery. Btry X, X Bn, XX Mar: Direct support.

(4)Air. MAG-XX provides offensive air support from the EAF at TWENTYNINE PALMS.

(5)Naval Surface Fire Support. None.

(6)Combat Service Support. CSSD-XX provides CSS from the CSSA located at the port of TWENTYNINE PALMS.

d.Attachments and Detachments. No change.

e.Assumptions. None.

2.MISSION

At 999999U Xxx 00, X Bn (-) (Rein), X Mar secures MAGTF Obj 1 (NU970020) in order to deny the enemy use of CLEGHORN PASS.

3.EXECUTION

a.Commander's Intent/Concept of Operations

(1)Commander's Intent. The purpose of this operation is to deny the enemy the ability to advance through CLEGHORN PASS toward TWENTYNINE PALMS. This will be accomplished by attacking the enemy company defending the RANGE 400 PASS in order to prevent it from reinforcing MAGTF Obj 1 (NU970020), and advancing through CLEGHORN PASS with the

main attack. End state is one company team consolidated on MAGTF Obj 1 (NU970020).

(2) Concept of Operations

(a) Maneuver

(1) See Operations Overlay.

(2) At H-02:00, heavy machineguns, reinforced with TOWs, establish a screen line on the LD.

(3) At H-01:00, the artillery battery in direct support occupies firing positions short of the LD.

(4) At H-00:36, maneuver elements of the battalion begin moving from the assembly area to the LD.

(5) At H-Hour, the tank company advances along Axis GRANITE and fixes the enemy company at Bn Obj A (NT940970) in order to allow the main attack to bypass this unit.

(6) The main attack, a mechanized company, advances along Axis GRANITE, bypasses the enemy company at Bn Obj A (NT940970), and secures MAGTF Obj 1 (NU970020).

(7) A motorized company team crosses the LD after the tank company and main attack, advances along Axis SLATE and conducts a supporting attack to seize Bn Obj A (NT940970) in order to prevent the enemy company defending RANGE 400 PASS from reinforcing MAGTF Obj 1 (NU970020).

(8) The tank company breaks contact with the enemy at Bn Obj A (NT940970) when the motorized company team begins its assault. The tank company then follows in trace of the main attack as the battalion reserve.

(b) Fires. Supporting arms will be used to neutralize the enemy battalion's mortar platoon and reserve, and to provide suppressive fires on forward enemy positions in support of the main attack.

(1) Artillery Support. X Btry, X Bn, XX Mar is in direct support of the battalion. The battery will initially occupy firing positions vicinity NT900900. Prior to H-Hour, artillery fires will be used to

neutralize the enemy battalion's 120mm mortar platoon. As we cross LD, the battery will fire a smoke mission south of Bn Obj A (NT940970) to support Tm Tank's occupation of its support-by-fireposition, and to screen Tm Mech's movement along Axis GRANITE. After Tm Mech crosses PL BLUE, the battery will provide suppressive fires on MAGTF Obj 1 (NU970020) in support of the main attack. After MAGTF Obj 1 (NU970020) is secured, the battery will displace to firing positions vicinity PT010970. Priority of fires for artillery goes to Tm Mech.

(2)Mortars. One section in direct support of Tm Mech; one section in direct support of Tm Truck.

(3)Air Support. The battalion has been allotted 4 sorties F/W CAS, 2 sorties R/W CAS, and 1 FAC(A) sortie. Prior to crossing LD, the F/W CAS sorties, under FAC(A) control, will be used to neutralize the enemy battalion's reserve. Any F/W CAS sorties remaining after this is achieved will be passed to Tm Mech for the attack on MAGTF Obj 1 (NU970020). The R/W CAS sorties will be passed to Tm Mech for the attack on MAGTF Obj 1 (NU970020). Priority of CAS to Tm Mech.

(4)Naval Surface Fire Support. None.

(5)Planned Fires

(a)See the Operations Overlay.

(b)A linear target with smoke is planned south of Bn Obj A (NT940970). Additional targets are planned on the enemy 120mm mortar platoon, reserve and the forward enemy positions at MAGTF Obj 1 (NU970020).

(6)Fire Support Coordination

(a)See the Operations Overlay.

(b)1500-meter radius RFAs established around scout sniper teams at the following locations.

(1)RFA 1: NU997034.

(2)RFA 2: NU934022.

(7)Coordinating Instructions. (Omitted)

b. Tasks

(1) Co X (-) (Rein) (Tm Mech). After Tm Tank crosses LD, advance along Axis GRANITE and secure MAGTF Obj 1 (NU970020) in order to prevent enemy forces from advancing through CLEGHORN PASS toward TWENTYNINE PALMS.

(2) Co X (Rein) (Tm Truck /Exercise Co). After Tm Tank and Tm Mech cross LD, advance along Axis SLATE and seize Bn Obj A (NT940970) in order to prevent the enemy company defending RANGE 400 PASS from reinforcing MAGTF Obj 1 (NU970020).

(3) Co X (-) (Rein), X Tk Bn (Tm Tank)

(a) At H-Hour, advance along Axis GRANITE and fix the enemy company at Bn Obj A (NT940970) in order to allow Tm Mech to bypass this unit.

(b) When Tm Truck begins its assault on Bn Obj A (NT940970), break contact and follow in trace of Tm Mech as the battalion reserve.

(4) Heavy MG Plt (-) (Rein). At H-2:00, establish a screen line on the LD. After all maneuver units have crossed LD, provide security to the combat trains.

(5) Btry X, X Bn, XX Mar. AT H-1:00 occupy initial firing positions in the vicinity of NT900900. Provide fires in support of the battalion's attack on MAGTF Obj 1 (NU970020). After MAGTF Obj 1 (NU970020) is secured, displace to firing positions in the vicinity of PT010970 and provide fires in support of consolidation on MAGTF Obj 1 (NU970020).

c. Battalion Reserve. Co X (-) (Rein), X Tk Bn (Tm Tank).

(1) Be prepared to assume the mission of Tm Mech.

(2) After MAGTF Obj 1 (NU970020) is secured, occupy an assembly area vicinity NT975975.

d. Coordinating Instructions

(1) See Operations Overlay.

(2) H-Hour is 999999U Xxx 00.

- (3) MOPP level 0 in effect.
- (4) Movement from Assembly Area to LD
 - (a) Vehicle Density: open column - 15 vehicles per km.
 - (b) Rate of March: 20 kmph.
 - (c) Time Gap: 2 minutes between march units.
 - (d) Critical Points: Route WILMA
 - (1) Start Point: NT819948
 - (2) Release Point: NT890916
 - (e) March Unit 1: Heavy MG Plat (-) (Rein)
 - (1) Start Time: H-02:36
 - (2) Arrival Time: H-02:09
 - (3) Completion Time: H-02:06
 - (f) March Unit 2: Btry X, Bravo Command Element
 - (1) Start Time: H-01:57
 - (2) Arrival Time: H-01:30
 - (3) Completion Time: H-01:24
 - (g) March Unit 3: Tm Tank
 - (1) Start Time: H-00:36
 - (2) Arrival Time: H-00:09
 - (3) Completion Time: H-00:03
 - (4) From RP, follow Route 1 to LD.
 - (h) March Unit 4: Tm Mech, Alpha Command Element
 - (1) Start Time: H-00:28
 - (2) Arrival Time: H-00:01

- (3) Completion Time: H+00:02
- (4) From RP, follow Route 1 to LD.
- (i) March Unit 5: Combat Trains
 - (1) Start Time: H-00:23
 - (2) Arrival Time: H+00:04
 - (3) Completion Time: H+00:07
 - (4) From RP, follow Route 1 to LD.
- (j) March Unit 6: Tm Truck
 - (1) Start Time: H-00:18
 - (2) Arrival Time: H+00:09
 - (3) Completion Time: H+00:12
 - (4) From RP, follow Route 2 to LD.
 - (5) Initial order of march on Axis GRANITE is Tm Tank, Tm Mech, Alpha command element, combat trains.
 - (6) Tm Truck will use an assault position at NT932965 for its attack on Bn Obj A (NT940970).
 - (7) Tm Tank will break contact with Bn Obj A (NT940970) when Tm Truck departs its assault position.

4. ADMINISTRATION AND LOGISTICS

- a. See X Bn, X Mar Combat SOP and Operations Overlay.
- b. Combat train will follow in trace of maneuver elements along Axis GRANITE. Following seizure of MAGTF Obj 1 (NU970020), will position itself vicinity NT984995.
- c. Field trains will remain in the CSSA. Displace on order when MAGTF Obj 1 (NU970020) secured.
- d. BAS located with the combat train.
- e. UMCP initially located at NT890905. After MAGTF Obj 1 (NU970020) is secured, collocates with combat train.

5. COMMAND AND SIGNAL

a. Command Relationships. (Omitted)

b. Signal. See current CEOI.

c. Command Posts

(1) Alpha command element will follow in trace of Tm Mech.

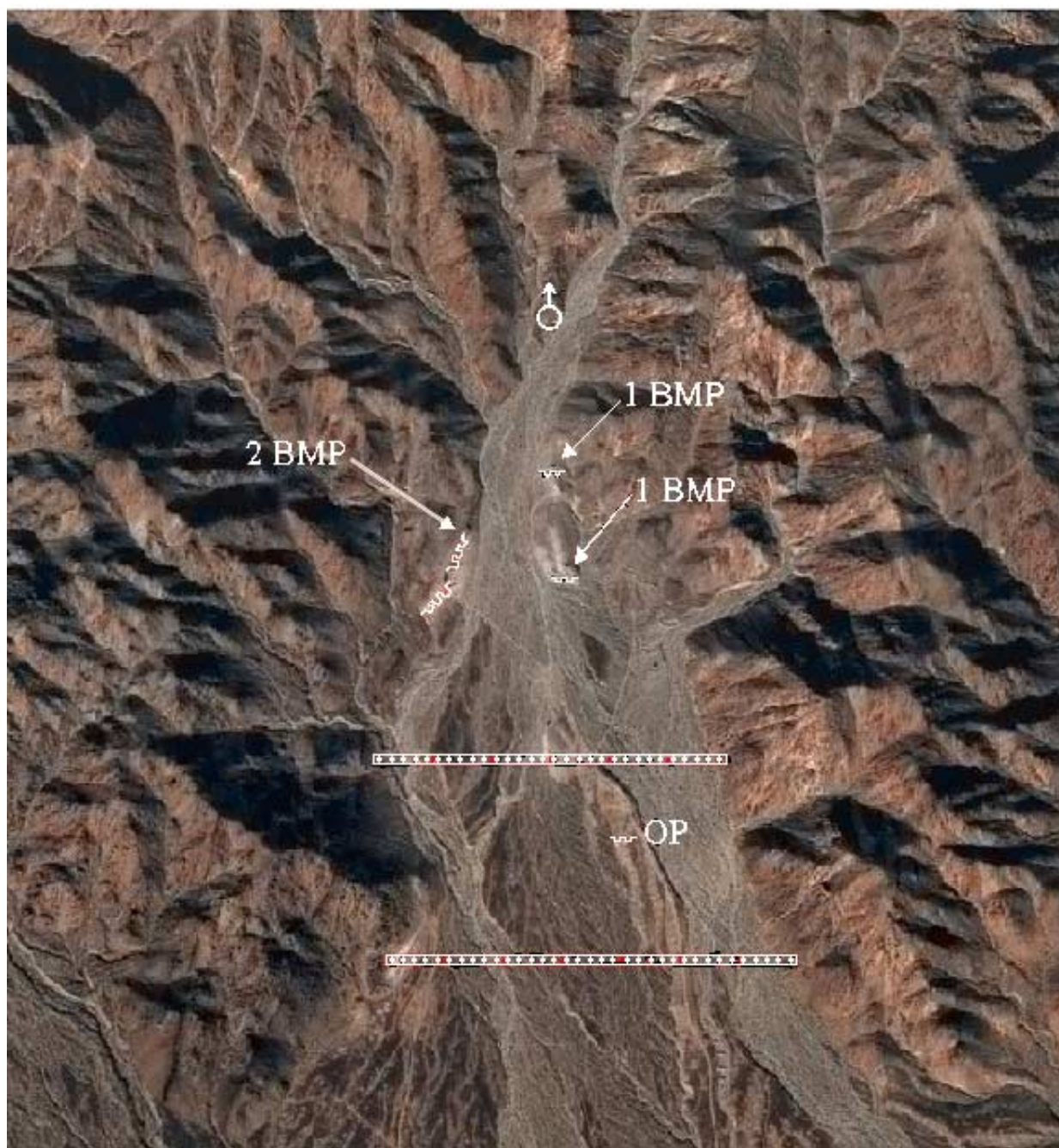
(2) Bravo command element will collocate with the artillery battery.

ACKNOWLEDGE RECEIPT

CHARLES B. HOOYA
Lieutenant Colonel, U.S.M.C.
Commanding



Range 400



RANGE 400 SERIES EXECUTION CHECKLISTS

RANGE 410A

The following actions must be completed prior to TTECG arriving on the day of the exercise.

- ☐ Terrain model prepared.
- ☐ Platoon operations orders issued to platoons.
- ☐ Breach kit assembled
- ☐ RSO appointed.
- ☐ Road guards posted and communications established with the RSO.
- ☐ Dedicated safety vehicle and corpsman present.
- ☐ Range flag flying on flagpole at range entrance.
- ☐ Company-level safety brief completed.
- ☐ Communications with Range Control (BEARMAT) established.
- ☐ EOD present to clear dud hand grenades between each platoon's execution of the range.
- ☐ Range hot.
- ☐ Machineguns firing overhead in position, tripod legs sand-bagged and depression stops in place.
- ☐ Platoons staged by the terrain model.
- ☐ Ammunition issued to platoons, **to include practice grenades with fuses.**
- ☐ Positive accountability of any personnel down range. TTECG will not commence any training until the company commander and the RSO confirm that the range is free of Marines down range.
- ☐ Platoon commanders ready to brief TTECG on paragraphs 3 and 5 of their operations orders and their trench clearing SOPs.

RANGE 400

The following actions must be completed prior to TTECG arriving on the day of the exercise.

- ❑ Terrain model prepared.
- ❑ Operations orders issued to company.
- ❑ RSO appointed.
- ❑ Road guards positioned at grid coordinates NT934955 and NT947958 communications established with the RSO.
- ❑ Dedicated safety vehicle and corpsman present.
- ❑ Range flag flying on flagpole at range entrance.
- ❑ Company-level safety brief completed.
- ❑ Communications with Range Control (BEARMAT) established.
- ❑ Range hot.
- ❑ Mortars fired and recorded on all planned targets.
- ❑ Machineguns firing overhead in position, tripod legs sand-bagged and depression stops in place.
- ❑ Heavy machineguns in position with data recorded for all planned targets.
- ❑ Demolitions for breaching the enemy minefield, as well as deception breach, emplaced. Demolitions will not be primed until cleared by the TTECG Engineer Representative.
- ❑ Scout-sniper team in position with TTECG-assigned controller.
- ❑ Company in assault position to the South of the Barber Pole.
- ❑ Ammunition issued to company.
- ❑ Positive accountability of any personnel down range. TTECG will not commence any training until the company commander and the RSO confirm that the range is free of Marines down range.
- ❑ Company commander ready to brief TTECG on paragraphs 3 and 5 of his operation order.